



Application No. 10/733,397
Amendment dated October 17, 2006
After Final Office Action of July 17, 2006

Docket No.: 4413-0132P

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A linking method under a mother and child block architecture for building a check area and a logical page of a child block in a flash memory, wherein when a host writes data into a logical block of said flash memory, the linking method comprising:

defining a block corresponding to said logical block as a mother block;

locating a new block from a backup block and defining said new block as a child block, wherein said mother block and said child block have the same logical address;

recording the data into a page of said child block, while retaining original data in said mother block;

using a redundant page, which stores metadata in said child block for creating a check area;

recording said redundant page of said child block which corresponds to a page in said mother block; and

using said check area consisting of a logical page for identifying whether the data to be retrieved is stored in said mother block or child block when a subsequent read is performed;

wherein said check area in said redundant page of child block is defined as three bytes, wherein a first and second byte indicate pages of said child block and a third byte indicates a page of said mother block.

2. (Previously Presented) The linking method under a mother and a child block architecture for building a check area and a logical page of a child block according to claim 1, wherein when a host is ready for reading said page in said logical page, said child block corresponding to said mother block in said logical page is read and other pages in said child block are read all from said pages of said mother block.

3. (Cancelled)

4. (Previously Presented) The linking method under a mother and a child block architecture for building a check area and a logical page of a child block according to claim 1, wherein when said host repeats writing data into said logical page of the child block, the data being written to a full page of said child block and when said logical page of child block is full, a new block is located for moving a valid block of said mother block and said child block into therein and then said mother block and child block are erased.

5. (Cancelled)